



Water-Data Report 2008

0146708130 SOUTH BRANCH PENNSAUKEN CREEK AT MAIN STREET, AT MAPLE SHADE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°57'15", long 75°00'48" referenced to North American Datum of 1983, Burlington County, NJ, Hydrologic Unit 02040202, at bridge on Main Street (County Route 537), 200 ft east from Maryland Avenue, 0.8 mi west from Maple Shade, and 1.8 mi upstream from confluence with North Branch Pennsauken Creek.

DRAINAGE AREA.--12.4 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 18.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	Baro- metric pressure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 20...	0900	6.4	.179	.146	764	8.5	73	7.2	382	8.3	8.2	87	23.6
Mar 10...	1100	10	.133	.103	770	10.7	85	7.1	492	6.4	5.7	86	23.5
Jun 04...	0930	44	.190	.143	756	6.5	70	6.9	169	20.0	19.3	35	9.29
Aug 14...	0900	4.6	.127	.096	756	6.0	67	7.1	400	22.6	20.6	91	24.2

0146708130 SOUTH BRANCH PENNSAUKEN CREEK AT MAIN STREET, AT MAPLE SHADE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 2 of 5
 [Remark codes: <, less than; E, estimated.]

Date	ANC, wat unf						Residue water, filtrd,			Residue on evap.		Residue total non-filterable, +		Ammonia org-N, water, filtrd, mg/L as N	
	Magnes-ium, water, filtrd, mg/L (00925)	Potas-sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	Sodium, lab, mg/L as CaCO ₃ (90410)	Chlor-ide, water, filtrd, mg/L (00940)	Fluor-ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO ₂ (00955)	Sulfate, water, filtrd, mg/L (00945)	(70301)	(70300)	(00530)	(00623)	(00608)		
Nov 20...	6.77	6.14	28.4	38	52.7	.13	8.9	29.4	190	202	2	.43	.033		
Mar 10...	6.69	3.73	52.2	30	97.7	.12	9.9	34.9	E254	264	8	.41	.085		
Jun 04...	2.79	3.21	12.8	23	22.6	E.10	3.6	11.6	E85	97	93	.52	.183		
Aug 14...	7.36	7.75	35.6	38	57.8	.14	8.4	35.5	220	245	3	.58	.047		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 3 of 5
 [Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water filtrd, mg/L as N (00631)	Partic-ulate nitro- gen, water, susp, filtrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho-phosphate, water, filtrd, mg/L as P (00671)	Phos-phorus, water, filtrd, mg/L as P (00666)	Phos-phorus, water, unfiltrd, mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Arsenic water, filtrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)
	(00631)	(49570)	(00602)	(00600)	(00671)	(00666)	(00665)	(00694)	(00688)	(00689)	(00681)	(01000)	(01002)
Nov 20...	2.44	.12	2.9	3.0	.040	.071	.161	.8	<.04	.8	4.5	--	--
Mar 10...	1.60	.10	2.0	2.1	E.007	.016	.119	1.1	<.04	1.1	3.6	.39	1.0
Jun 04...	1.10	.32	1.6	1.9	.034	.047	.885	2.5	<.04	2.5	5.7	--	--
Aug 14...	4.63	.06	5.2	5.3	.038	.065	.129	.5	<.04	.5	4.5	.69	.94

0146708130 SOUTH BRANCH PENNSAUKEN CREEK AT MAIN STREET, AT MAPLE SHADE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
 Part 4 of 5
 [Remark codes: <, less than; E, estimated.]

Date	Barium, water, unfltrd recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Boron, water, unfltrd recover -able, μg/L (01020)	Boron, water, unfltrd recover -able, μg/L (01022)	Cadmium water, unfltrd recover -able, μg/L (01027)	Chrom- ium, water, unfltrd recover -able, μg/L (01034)	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	Mangan- ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Selen- ium, water, unfltrd recover -able, μg/L (01147)
Nov 20...	--	--	56	--	--	--	--	--	--	--	--	--	--
Mar 10...	40.7	.15	36	40	.15	.95	2.6	1,530	1.36	119	<.010	5.9	.17
Jun 04...	--	--	24	--	--	--	--	--	--	--	--	--	--
Aug 14...	38.8	<.04	77	81	.03	E.37	4.1	638	.84	30.0	<.010	3.2	.15

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008

Part 5 of 5
 [Remark codes: <, less than;
 E, estimated.]

Date	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)
Nov 20...	--	--
Mar 10...	E.01	40.3
Jun 04...	--	--
Aug 14...	E.01	10.0

0146708130 SOUTH BRANCH PENNSAUKEN CREEK AT MAIN STREET, AT MAPLE SHADE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1-Naph-thol, water, 0.7u GF μg/L (49295)	2,6-Di-ethyl-aniline, water, 0.7u GF μg/L (82660)	2Chloro- -2',6'-diethyl acetanilide wat flt μg/L (61618)	CIAT, water, fltrd, μg/L (04040)	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, μg/L (61620)	3,4-Di-chloro-aniline water, fltrd, μg/L (61625)	3,5-Di-chloro-aniline water, fltrd, μg/L (61627)	4-Chloro- 2methyl-phenol, water, fltrd, μg/L (61633)	Aceto-chlor, water, fltrd, μg/L (49260)	Ala-chlor, water, fltrd, μg/L (46342)	alpha-Endo-sulfan, water, fltrd, μg/L (34362)	Atra-zine, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)
Jun 04...	<.04	<.006	<.010	E.018	<.010	<.006	<.008	<.005	.011	.014	<.006	.041	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	Azin-phos-methyl, water, 0.7u GF μg/L (82686)	Ben-flur-alin, water, 0.7u GF μg/L (82673)	Car-baryl, water, 0.7u GF μg/L (82680)	Carbo-furan, water, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, 0.7u GF μg/L (61636)	Chlor-pyrifos water, 0.7u GF μg/L (38933)	Chlor-pyrifos water, 0.7u GF μg/L (82687)	cis-Per-methrin water, 0.7u GF μg/L (79846)	cis-Propi-conazole, water, 0.7u GF μg/L (04041)	Cyana-zine, water, 0.7u GF μg/L (61585)	Cyflu-thrin, water, 0.7u GF μg/L (61595)	Iambda-Cyhalothrin, water, 0.7u GF μg/L (61586)	Cyper-methrin water, 0.7u GF μg/L (82682)	DCPA, water, fltrd, μg/L (61586)
Jun 04...	<.120	<.010	E.088	<.020	<.06	<.027	<.010	<.006	<.020	<.016	<.004	<.014	E.005	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than; E, estimated.]

Date	Desulf- inylfipro- nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Dicro-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, 0.7u GF μg/L (82662)	Disulf- oton, water, 0.7u GF μg/L (61640)	Disul- foton, water, 0.7u GF μg/L (82677)	Endo- sulfan, water, 0.7u GF μg/L (61590)	EPTC, water, 0.7u GF μg/L (82668)	Ethion, monoxon water, 0.7u GF μg/L (61644)	Ethion, water, 0.7u GF μg/L (82346)	Etho-prop, water, 0.7u GF μg/L (82672)	Fenami-phos- sulfone water, fltrd, μg/L (61645)	
Jun 04...	E.010	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	

0146708130 SOUTH BRANCH PENNSAUKEN CREEK AT MAIN STREET, AT MAPLE SHADE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami-phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl- fipro- nil sulfide amide, wat flt μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)	Fipro-nil sulfone water, fltrd, μg/L (62168)	Fipro-nil sulfone water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Meta-laxyl, water, fltrd, μg/L (61596)
Jun 04...	<.20	<.03	E.004	E.008	<.024	E.038	<.010	<.008	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid- athion, water, fltrd, μg/L (61598)	Methyl para- oxon, water, fltrd, μg/L (61664)	Methyl para- thion, water, fltrd, 0.7u GF (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd, 0.7u GF (82671)	Myclo- butanil water, fltrd, μg/L (61599)	Oxy- fluor- fen, water, fltrd, μg/L (61600)	Pendi- meth- alin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
Jun 04...	<.004	<.01	<.008	.055	<.012	<.003	<.010	<.006	.029	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propani-l, water, fltrd, 0.7u GF (82679)	Propar-gite, water, fltrd, 0.7u GF (82685)	Simazine, water, fltrd, 0.7u GF (04035)	Tebu-thiuron water, fltrd, 0.7u GF (82670)	Teflu-thrin, water, fltrd, 0.7u GF (61606)	Terbufos oxon sulfone water, fltrd, 0.7u GF (61674)	Terbu-fos, water, fltrd, 0.7u GF (82675)	Terbutyl- azine, water, fltrd, 0.7u GF (04022)	Thio-bencarb water, fltrd, 0.7u GF (82681)	trans- Propi-conazole, water, fltrd, μg/L (79847)
Jun 04...	.09	<.006	<.004	<.006	<.04	.020	<.02	<.003	<.04	<.02	<.01	<.010	<.02

0146708130 SOUTH BRANCH PENNSAUKEN CREEK AT MAIN STREET, AT MAPLE SHADE, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	Tri-flur-alin, phos, water, water, filtrd, µg/L (61610)	water, filtrd, 0.7u GF µg/L (82661)	Di-chlor-vos, water, filtrd, µg/L (38775)
Jun 04...	<.035	<.009	<.01